Original

P.W.G. 17 | 2nd Bill | **CONTRACT CERTIFICATE** | Reference paras 158 & 170

NO | **Work Code: 017-13-000057**

Division | Sub division | Date

Bills received No BRNo-36 Date 30/8/14 | Sub-divisional / Divisional | Cash book vr No SBRNo-34 Date 30/8/14

Sheduled Docket No | **Head of account: P0298**

Name of work(as per sanctioned estimate) :- **Name of the Work: providing M & R to Electrical installations @ JP Park in ward No 17 of RR Nagar**

Name of contractor and full address :- **Prema Electrical Enterprises, No 134, Coconut Avenue Road, 8th Cross, Malleshwaram, Bangalore-03.**

Reference to agreement No :- **No EE/BBMP/ELECT/WO/61/2013-14 Dt: 30/09/2013**

Certified that the measurments were taken by me on 16/8/14 and recorded on pages 13964 - 13970 to .....of measurment book No 140114-15 ...and the work is satisfactorily executed by the contractor.

Signature of contractor — Junior Engineer

Certified that the measurments were taken by me on 16/8/14 ...and recorded correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

Sub-divisional officer

II MEMORANDUM OF PAYMENT

AEE (Ele.) | EE (Elect)

146078.00

1) Total value of work done or supplies as per A/c within
2) Deduct amount to be held in reserve being-----percent Rs----------%---------
3) Balance---
4) **Deduct payments**
   a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S.D No----------Amount
   b) Cost of payments/stores or other materials supplied now made recovery
   Amount paid on this bill by cheque/cash
   Total
5). Balance being unpaid value of work done held in reserve
6) Deduct cash of advance made on divisional/sub divisional cash book
7) Net amount due to or from contractor.

UN ADJUSTED ITEMS

8) Advance to contractor for materials to site(as detailed within)
9) Value of government materials supplied.

TOTAL AMOUNT UN-ADJUSTED Net 134245-00

Adjustments Details

IT :	1461-00
KST :	5843-00
CBF :	146-00
FSD :	—
LC :	461-00
FINE :	—
OTHERS :	2922-00
TOTAL :	11833-00

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum

(in final settlement of all demand)

Witness

1)

2)

Resident Stamp

Dated signature of contractor

paid by me cheque No.....dated.....

Cash Rs.....

Date | Initials of officer making payment | Date

Passed for Rs. 146078-00

Net Cheque Rs 134245-00 Only.

Adjustment Rs 11833-00 Only.

Rs. in Words One lakh forty four thousand two hundred & seventy eight only

Junior Engineer

Accts. Supdt.
RRNZ

EEE
RRNZ

Name of the Work: providing M & R to Electrical installations @ JP Park in ward No 17 of RR Nagar (From: 01/07/2014 to 31/07/2014)

Sl No	Description of Item	Unit	Previous Measurement		Present Measurment			Total Up to	
			Qty	Cost	Qty	Rate	Cost	Qty	Cost
1	Annual Electrical Maintenance of Electrical instllations a) Licenced Electric Wireman fitter with tools Rs 184.74 per day per person Rs 1184.74X30 days = Rs 5542.20 per person per month Rs 5542.2X12 Months Rs 66506.40 per person per year (One Wireman per Shift for 2 Shifts /day)	Each	1	16627	1	23277.00	23277.00	1	39904.00
2	b) Electrical Helper Rs 184.74 per day per person Rs 1184.74X30 days = Rs 5542.20 per person per month Rs 5542.2X12 Months Rs 66506.40 per person per year (One helper per Shift for 2 Shifts /day)	Each	1	16627	1	23277.00	23277.00	1	39904.00
3	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using NF screws.								
	19/20mm dia 2mm thick	Per Mtr	25	550	25	22.00	550.00	50	1100.00
	25mm dia 2mm thick	Per Mtr	10	270	15	27.00	405.00	25	675.00
4	Supply and fixing of backlite D.P/Socket/switch with/without neon indicator over existing wood board or flush mounting in plastic plates/nitches.								
	Using Group 'A' Material.								
	32Amps Flush/projecte type DP switch	Each	5	**435**	5	87.00	435.00	10	870.00
	16Amps Flush type Univerals socket	Each	3	171	2	57.00	114.00	5	285.00
5	Wiring for lighting/power circuit using one of PVC insulated 11oov grad, multis and **copper** conductor single core cable in open or consealed system of wiring.								
	I Group A Materials.								
	1.5 sqmm	Per Mtr.	150	1350	100	9.00	900.00	250	2250.00
	2.5 sqmm	Per Mtr.	300	4500	200	15.00	3000.00	500	7500.00
	4 sqmm	Per Mtr.	50	950	50	19.00	950.00	100	1900.00
	6 sqmm	Per Mtr.	10	310	15	31.00	465.00	25	775.00
6	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.	SqCm	5000	500	5000	0.10	500.00	10000	1000.00
7	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm.... etc as required.								
	20mm Dia	Mtr	15	330	10	22.00	220.00	25	550.00
	25mm Dia	Mtr	5	125	10	25.00	250.00	15	375.00

AEE (ELE)

	Description of Item	Unit	Previous Measurement		Present Measurment			Total Up to	
			Qty	Cost	Qty	Rate	Cost	Qty	Cost
8	Supplying PVC/GI flexible conduit pipe…mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy guage saddles at an interval of 300mm using NF screws and the either end of the pipe terminated completely.								
	20mm	Mtr	30	810	20	27.00	540.00	50	1350.00
9	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required.								
	5-32Amps Sp								
	Group ' A'	Each	10	1170	10	117.00	1170.00	20	2340.00
	5-32Amps DP								
	Group ' A'	Each	5	1530	5	306.00	1530.00	10	3060.00
	40-63Amps DP								
	Group ' A'	Each	3	1467	2	489.00	978.00	5	2445.00
	5-32Amps TPN								
	1. Group 'A'	Each	2	1206	1	603.00	603.00	3	1809.00
	40-63Amps TPN								
	1. Group 'A'	Each	2	1794	1	897.00	897.00	3	2691.00
10	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat… with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.								
	40x40x6mm	RMtr	4	576	4	144.00	576.00	8	1152.00
11	Fabricating supplying and mounting MS box made out… SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete.								
	16SWG	SQ CM	10000	3000	10000	0.30	3000.00	20000	6000.00
12	Supply and installaion / Fixing / Provision for mounting of HRC Fuse/ MCB with suitable connector/ terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 SQmm/25 Sqmm 3.5 C Al/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof having internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and / or grommets.								
	200x200x98mm	Each	5	2775	5	555.00	2775.00	10	5550.00
13	Supplying and fixing of metal socket set of 2pole and earth plugs and socket for incorporating SP and TP MCB 9Without MCB). The entire plug and socket shall be mounted in a powder coated metal box & wired completely								
	SP & N								
	20 Amps	Each	2	942	1	471.00	471.00	3	
	Supply of Special type lamps								

Sl No	Description of Item	Unit	Previous Measurement		Present Measurment			To	
			Qty	Cost	Qty	Rate	Cost	Qty	Cost
	18 Watts CFL	No	25	2700	25	108.00	2700.00	50	5400.00
14	Supply of 1x19x1000mm self adhesive Pvc insulated steel grip tape roll.	No	25	225	25	9.00	225.00	50	450.00
15	Supplying and replacing PVC flexible copper wire of approved make in place of deteriorated wire.								
	23/0.0060"	RMt	25	125	25	5.00	125.00	50	250.00
16	Supplying and drawing PVC flexible unarmoured copper control cable of approved make								
	3c x 2.5Sqmm								
	Group A	RMt	25	1925	25	77.00	1925.00	50	3850.00
17	Supplying and fixing/replacing of 6/32Amps electrical accessories on existing wittch board.								
	6Amps SP Switch	No	15	285	10	19.00	190.00	25	475.00
	6Amps 3 Way 5 Pin Socket	No	15	375	10	25.00	250.00	25	625.00
	6Amps 3 pin Top	No	10	240	5	24.00	120.00	15	360.00
	6 Amps lamps holder	No	25	575	25	23.00	575.00	50	1150.00
	16 Amps SP Switch	No	5	240	5	48.00	240.00	10	480.00
	16 Amps 3 way 5 pin socket	No	5	250	5	50.00	250.00	10	500.00
	16 Amps 3 pin top	No	5	215	5	43.00	215.00	10	430.00
18	Supplying and fixing/replacing condenser for ceiling gan/MV/SV/MH and other luminaries.								
	8mfd	No	10	580	5	58.00	290.00	15	870.00
19	Supply and fixing/replacing of choke for Mercury Vapour lamp fitting in existing fitting mounted on trbular pole.								
	125 Watts								
	Group A	No	20	6080	5	304.00	1520.00	25	7600.00
20	Supply and fixing of 70Watts heavy duty open construcion ferromagnetic copper ballast for HPSV/HPMH lamps								
	150Watts								
	Group A	No	5	2770	5	554.00	2770.00	10	5540.00
21	Supplying and fixing MV lamps on existing fitting mounted on tubular pole.								
	125Watts	No	15	1845	10	123.00	1230.00	25	3075.00
22	Supplying and fixing of HPMH lamps on existing fitting mounted on tublar pole.								
	I Single end								
	70 to 150Watts	No	5	2340	5	468.00	2340.00	10	4680.00
23	Supply and fixing of of 230 volts CFL lamp holder								
	2Pin Holder	No	25	750	25	30.00	750.00	50	1500.00
24	Supply and fixing of of 230 volts Porocelain holder fof MV/SV/MH lamp								
	70-150Watts lamp Holder	No	15	660	10	44.00	440.00	25	1100.00
25	Supply and fixing of of 230 volts CFL lamp starter base	No	15	150	10	10.00	100.00	25	250.00
26	Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/footing of the pole.								
	Upto 5Mtr street light pole.	No	50	7800	50	156.00	7800.00	100	15600.00
27	Supplying, fixing/replacing of igniter suitable for 70 to 400 W SV/MH Street light fitting.								
	Group A	Each	10	3150	10	315.00	3150.00	20	6300.00

AEE (Ele.)

	Description of Item	Unit	Previous Measurement		Present Measurment			Total Up to	
			Qty	Cost	Qty	Rate	Cost	Qty	Cost
28	Supp / ng, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.	Each	2	2340	2	1170.00	2340.00	4	4680.00
29	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class								
	4 core 16 sqmm	Per Mtr	200	18000	200	90.00	18000.00	400	36000.00
	3.5 core 25 sqmm	Per Mtr	75	9675	75	129.00	9675.00	150	19350.00
	3.5 core 35 sqmm	Per Mtr	25	3750	25	150.00	3750.00	50	7500.00
	3.5 core 50 sqmm	Per Mtr	15	3060	10	204.00	2040.00	25	5100.00
30	Labour charges for laying of 1.1KV class UG calbe when supplied agency in existing trench GI pipe/ stpnewre pip / on wall / on pole as required.								
	In exixting trench/duct.								
	6 sqmm to 16 sqmm	Rmtr.	200	1000	200	5.00	1000.00	400	2000.00
	25 sqmm to 75 sqmm	Rmtr.	100	700	125	7.00	875.00	225	1575.00
31	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., Complete. (As per Civil SR KSRB 1-2, P-7)								
	In soil (ordinary)	Rmtr	300	7200	225	24.00	5400.00	525	12600.00
	CC Cutting		15	1260	15	84.00	1260.00	30	2520.00
32	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class.								
	40mm	Rmtr	5	720	5	144.00	720.00	10	1440.00
	50mm	Rmtr	3	468	2	156.00	312.00	5	780.00
33	Supplying and making straight through cable joint with epoxy resin including farrules and other jointing matrials for PVC insulated and PVC sheathed steel tape, wire armoured aluminium conductor cable of 1.1 KV grade of the following sizes.								
	3 1/2x16 sqmm	Per Kit	10	5760	8	576.00	4608.00	18	10368.00
	3 1/2x 35 sqmm	Per Kit	3	1836	2	612.00	1224.00	5	3060.00
	3 1/2x50 sqmm	Per Kit	2	1452	1	726.00	726.00	3	2178.00
34	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/ spaceris etc.,								
	GI wire								
	8 SWG	Per Mtr	10	120	5	12.00	60.00	15	180.00

AEE (Elc.)

Sl No	Description of Item	Unit	Previous Measurement		Present Measurment			Total Up to	
			Qty	Cost	Qty	Rate	Cost	Qty	Cost
35	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix 1:1.5:3 using 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Cooping to MS pole each 3.142x0.15x0.15x0.9 = 0..0636cmtr.)	cum	3	5541				3	5541.00
	Total			**154177.00**			**146078.00**		**300255.00**
Rupees One Lakhs Forty six Thousand Seventy Eight Only									

1.Certified that measurement were taken by me .
2.Work is executed satisfactorily.

AEE (Ele.)

EE (Ele.)

	B)DEDUCTIONS								
	a)Deduction of 2% of total bill as per clause 36 (a) of tender notification on account of released scrap material						6005.10		6005.10

AEE (Ele.)

EE (Ele.)